ABSTRACT

Reduction of energization transients in a three phase Y-connected load having legs A, B and C associated with corresponding phases of a three-phase AC power system is achieved by energizing respective legs of the load in an order determined by a energization sequence dependent upon a type of the load. The energization sequence defines first, second and third legs of the legs A, B and C to be energized. A conduction path for current to flow between a neutral point of the Y-connected load to ground through a transient-limiting impedance while the first, second and third legs are being energized is employed. The transient limiting impedance has an impedance value selected such that after the first leg is energized, an energization transient produced on energizing the second leg and an energization transient produced on energizing the third leg are both approximately minimized.